

# PARADIENE 20 TS P



## Commercial Product Data Sheet

### Product Description

Paradiene 20 TS P is a high performance, semi-adhered, SBS-modified bitumen base ply designed specifically for use in Parapro roof membrane systems. Paradiene 20 TS P consists of a lightweight random fibrous glass mat impregnated and coated with an elastomeric styrene-butadiene-styrene (SBS) modified bitumen. The unique top surface is factory coated with a proprietary Syntan acrylic coating. The back surface design consists of a factory-applied Syntan coating combined with heat-activated adhesive stripes, which provides for uniform bonding of 50% of the total surface area of the sheet.

Paradiene 20 TS P is available with Siplast RoofTag RFID roof asset technology on a Special-Made-To-Order basis. See RoofTag Commercial Product Data Sheet for more information.

### Product Uses

Paradiene 20 TS P is the first ply of all semi-adhered Siplast Paradiene 20 TS P/Parapro Roof Systems. It is lapped 3 inches (7.6 cm) on sides and ends. Paradiene 20 TS P is designed for direct application to primed structural concrete decks, approved insulations, and other approved substrates. Paradiene 20 TS P can only be torch applied. Paradiene P products are approved for a maximum 14 days of exposure prior to Parapro application. The laps of the Paradiene 20 TS P must be heat welded when the material is left exposed 1-14 days prior to application of the specified finish ply of Parapro Roof Membrane. Contact Siplast for specific approval on other product uses.

### Product Approvals

Paradiene 20 TS P is approved by FM Approvals for use as a base ply in Siplast Paradiene 20 TS P/Parapro Class 1 insulated steel roof deck constructions and insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

Paradiene 20 TS P is classified by Underwriters Laboratories in cULus approved Parapro listings and assemblies.

Contact Siplast for specific information regarding FM Class 1 windstorm resistance classifications.

Paradiene 20 TS P meets or exceeds the requirements of ASTM D 6163 Type I, Grade S, for SBS-modified bituminous sheet materials using glass fiber reinforcements.

Siplast Roof Systems have also received the approval of many regional and local code authorities. Contact Siplast for more information.

1. Syntan® is a registered trademark of Icopal.

### COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	1.0 Square	(9.3 m <sup>2</sup> )	
Coverage Weight Per Square:	Min:	73 lb	(3.6 kg/m <sup>2</sup> )
Roll Length:	Min:	33.5 ft	(10.21 m)
Roll Width:	Avg:	3.28 ft	(1.00 m)
Thickness:*	Avg:	91 mils	(2.3 mm)
	Min:	87 mils	(2.2 mm)
Selvage Width:	Avg:	N/A	N/A
Top Surfacing:	Syntan® Acrylic Coating <sup>1</sup>		
Back Surfacing:	Syntan Acrylic Coating, Adhesive Stripes, and Polyolefin Burnoff Film		

Lines: A laying line is placed 3 in (76 mm) from each edge of the material. The line color for this material is blue.

Packaging: Rolls are wound onto a compressed paper tube. The rolls are placed upright on pallets cushioned with corrugated cardboard and are adhered with adhesive at the labels. The top of the palletted rolls is covered with foiled Kraft paper. The palletted material is protected by a heat shrink polyethylene shroud.

Pallet: 41 in X 48 in (104 cm X 122 cm) wooden pallet  
Number Rolls Per Pallet: 25  
Number Pallets Per Truckload: 20  
Minimum Roll Weight: 73 lb (33.1 kg)

Storage and Handling: All Siplast roll roofing products should be stored on end on a clean flat surface. Care should be taken that rolls are not dropped on ends or edges and are not stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All roofing should be stored in a dry place, out of direct exposure to the elements, and should not be double stacked. Material should be handled in such a manner as to ensure that it remains dry prior to and during installation.

\* Thickness does not include the thickness of the adhesive stripes.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at [www.Siplast.com](http://www.Siplast.com).

Rev 3/2014

# PARADIENE 20 TS P

## Physical and Mechanical Properties

Property (as Manufactured)	Values/Units	Test Method
<sup>1</sup> Thickness (minimum)	87 mils (2.2 mm)	ASTM D 5147 section 6
<sup>1</sup> Thickness (average)	91 mils (2.3 mm)	ASTM D 5147 section 6
<sup>2</sup> Peak Load @ 73°F (average)	30 lbf/inch (5.3 kN/m)	ASTM D 5147 section 7
<sup>2</sup> Peak Load @ 0°F (average)	70 lbf/inch (12.3 kN/m)	ASTM D 5147 section 7
<sup>2</sup> Elongation @ Peak Load, 73°F (average)	3%	ASTM D 5147 section 7
<sup>2</sup> Elongation @ Peak Load, 0°F (average)	3%	ASTM D 5147 section 7
<sup>2</sup> Ultimate Elongation @ 73°F (average)	50%	ASTM D 5147 section 7
<sup>2</sup> Tear Strength (average)	40 lbf (0.18 kN)	ASTM D 5147 section 8
Water Absorption (maximum)	1%	ASTM D 5147 section 10
Dimensional Stability (maximum)	0.1 %	ASTM D 5147 section 11
Low Temperature Flexibility (maximum)	-15°F (-26 °C)	ASTM D 5147 section 12
Compound Stability (minimum)	250°F (121°C)	ASTM D 5147 section 16
Coating Thickness - Back Surface (including adhesive stripes)	≥ 40 mils (1 mm)	ASTM D 5147 section 17
Cyclic Fatigue	Paradiene 20 TS P, bonded to Parapro Roof Membrane, passes ASTM D 5849 both as-manufactured and after heat conditioning according to ASTM D 5147.	

1. Thickness does not include the thickness of the adhesive stripes.
2. The value reported is the lower of either MD or XD.